

LISTING OF THE CLAIMS

1-17. (cancelled)

18. (new) A method of creating a composite video signal, the method comprising:

generating a synchronization signal that comprises a vertical
5 synchronization timing;

acquiring a first video signal, synchronized according to the
synchronization signal, the first video signal comprising a first sequence of
frames, and each frame comprising an even field and an odd field;

acquiring a second video signal, synchronized according to the
10 synchronization signal, the second video signal comprising a second
sequence of frames, and each frame comprising an even field and an odd
field;

inserting into the composite video signal a frame comprising the even field
of the current frame of the first video signal and the odd field of the
15 current frame of the second video signal; and

compressing the composite video signal.

19. (new) The method of claim 18, comprising recording the compressed composite video
signal to a recording medium.

20. (new) The method of claim 18, comprising transmitting the compressed composite video
signal.

21. (new) A method of processing a composite video signal comprising a sequence of frames,
each frame comprising an even field and an odd field, the method comprising:

acquiring the composite video signal; and

for an input frame of the composite video signal, inserting into a first output video signal a first frame based upon the even field of the input frame and inserting into a second output video signal a second frame based upon the odd field of the input frame.

5 22. (new) The method of claim 21, wherein compression has been applied to the composite video signal, the method comprising decompressing the compressed composite video signal.

23. (new) The method of claim 21, comprising using interpolation to supply an odd field to the first frame and an even field to the second frame.

10 24. (new) The method of claim 21, wherein acquiring the composite video signal comprises retrieving the video signal from a recording medium.

25. (new) The method of claim 21, wherein acquiring the composite video signal comprises receiving a transmitted composite video signal.

26. (new) An apparatus for processing video signals, comprising:

a synchronization signal generator;

15 a video composition section, coupled to the synchronization signal generator, which

accepts as input a first video signal, synchronized according to a synchronization signal produced by the synchronization signal generator and comprising a first sequence of frames, each frame of the first video signal comprising an even field 20 and an odd field,

accepts as input a second video signal, synchronized according to the synchronization signal produced by the synchronization signal generator and comprising a second sequence of frames,

each frame of the second video signal comprising an even field
and an odd field, and

5 inserts into an output composite video signal a frame
 comprising the even field of the current frame of the first video
 signal and the odd field of the current frame of the second
 video signal; and

10 a compression section, coupled to the output of the video composition
 section, which accepts as input the composite video signal, compresses the
 composite video signal, and provides the compressed composite video
 signal as an output.

27. (new) The apparatus of claim 26, comprising:

a recording medium; and

15 a recording section coupled to the output of the compression section and
 configured to record to the recording medium, the recording section
 recording the compressed composite video signal to the recording
 medium.

28. (new) The apparatus of claim 26, comprising:

a first camera, coupled to the video composition section and configured to
provide the first video signal; and

20 a second camera, coupled to the video composition section and configured
 to provide the second video signal.

29. (new) An apparatus for processing video signals, comprising:

a video decomposition section, which

accepts an input composite video signal comprising a sequence of frames, each frame comprising an even field and an odd field,

5 inserts into a first output video signal a first frame derived from the even field of a frame of the composite video signal, and

inserts into a second output video signal a second frame derived from the odd field of the frame of the composite video signal.

30. (new) The apparatus of claim 29, comprising an interpolation section, wherein each of the
10 first frame and the second frame comprises an even field and an odd field, and the interpolation section uses interpolation to provide an odd field that is added to the first frame and an even field that is added to the second frame.

31. (new) The apparatus of claim 29, comprising a decompression section coupled to the video decomposition section, wherein the decompression section accepts an input compressed
15 composite video signal and provides, uncompressed, the composite video signal input to the video decomposition section.

32. (new) The apparatus of claim 31, comprising:

a recording medium; and

20 a reader coupled to the decompression section and configured to read from the recording medium, the reader acquiring the compressed composite video signal from the recording medium.